

Claims

- [c1] A locking mechanism for a hinged-door comprising:
- a first actuator including a first bolt movable between free and locked settings, said first actuator being adapted for mounting on a frame for a hinged door, and arranged such that said first bolt when in its locked setting, secures the door to the frame to resist opening movement thereof;
 - a second actuator including a second bolt movable between free and locked settings, said second actuator being adapted for mounting on said door at a location spaced from the first actuator and arranged such that said second bolt, when in its locked setting, also secures the door to the frame to resist opening movement thereof; and
 - drive means interconnecting the second actuator with the first bolt when in its locked setting, said drive means being adapted for mounting on the door and arranged such that operation of the first actuator to move the first bolt to its locked setting causes operation of the second actuator to move the second bolt to its locked setting.
- [c2] A locking mechanism as claimed in claim 1, wherein the

drive means includes a receptor for the first bolt, and a plunger mounted for sliding movement within said receptor, said receptor being adapted for mounting on a door.

- [c3] A locking mechanism as claimed in claim 2, wherein the second actuator comprises a housing adapted for mounting on the door, the second bolt being slidably mounted in the housing.
- [c4] A locking mechanism as claimed in claim 2, wherein a spring is provided to urge the second bolt towards its free setting, said second bolt being moveable towards its locked setting against the action of the spring.
- [c5] A locking mechanism as claimed in claim 2 wherein the drive means includes a cable interconnecting the plunger and the second bolt.
- [c6] A locking mechanism as claimed in claim 5, wherein said cable comprises an outer sheath and a flexible compression-resistant inner shaft slidably mounted therewithin, to transfer movement of the plunger to the second bolt.
- [c7] A locking mechanism as claimed in claim 6, wherein the plunger is directly provided on one end of the inner shaft.

- [c8] A locking mechanism as claimed in claim 2 wherein the drive means includes one of a pneumatic link and a hydraulic link, interconnecting the plunger and the second bolt.
- [c9] A locking mechanism as claimed in claim 1, wherein the first actuator is selected from the group consisting of pneumatically, hydraulically and electrically operated actuators.
- [c10] A locking mechanism as claimed in claim 1, in combination with a door hingedly mounted for opening movement within a frame, the first actuator being mounted on the frame for co-operation with a receptor for the first bolt mounted on the door, and the second actuator being mounted on the door for co-operation with a keep provided on the frame
- [c11] A combination as claimed in claim 10, wherein the first actuator is mounted on a frame member extending at right angles to the frame member to which the door is hinged, and the second actuator is mounted on an edge of the door for co-operation with a frame member opposed to that supporting the first actuator.